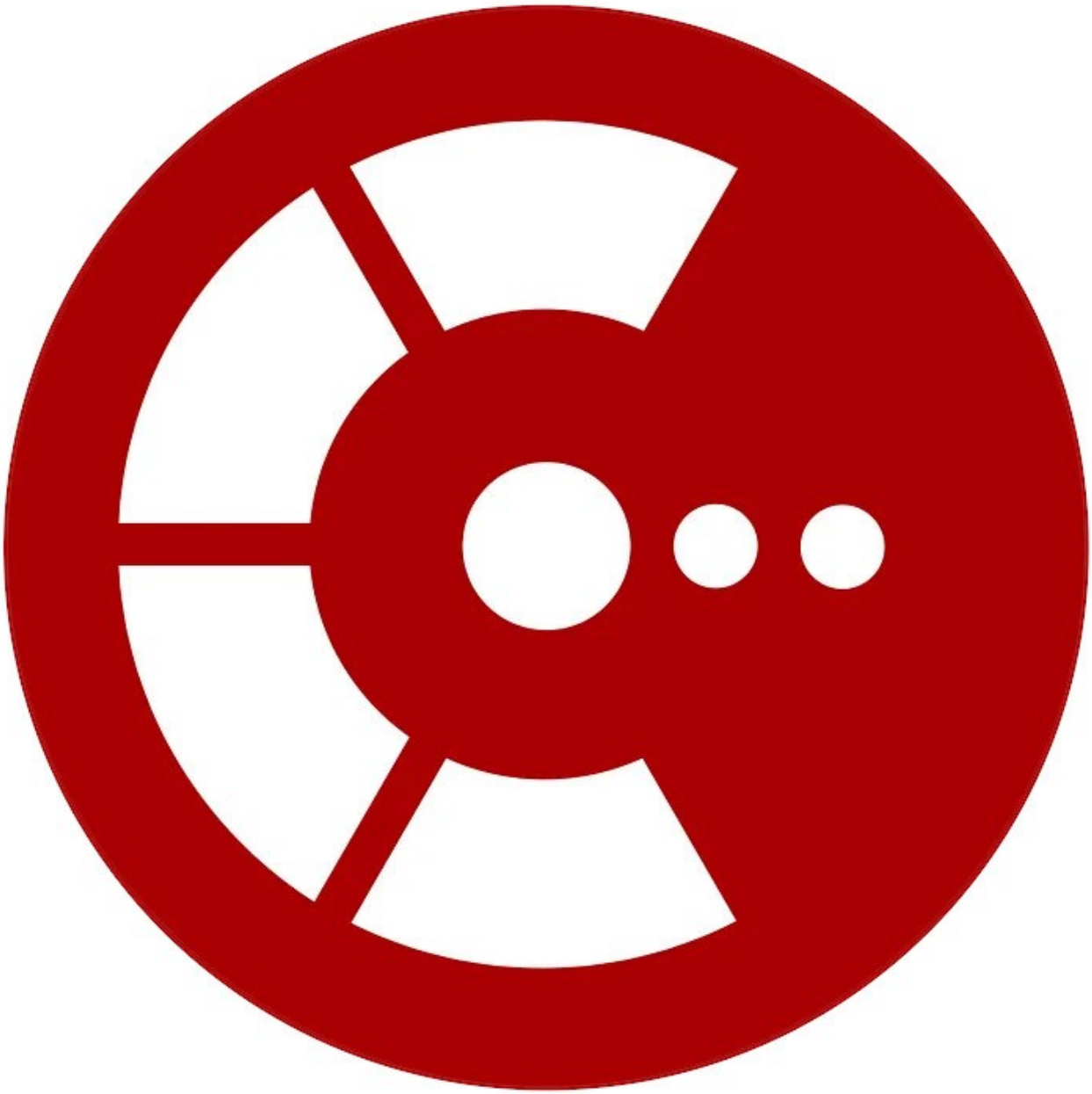

MARMARA CREDIT LOOPS

MARMARA CHAIN v.1.1.9

MARMARA CONNECTOR v.0.4.1 Alpha

MCL USER GUIDE

2024

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Note: This document was prepared by Marmara community volunteers, using the official documentation of the Marmara Chain project and the information on the Marmara Discord channel of the community. Each source is mentioned under the relevant topic.

Marmara Credit Loops

MCL, the First and the only DeFi system in the World designed to run in Real Economy.

Marmara Credit Loops on MarmaraChain, a trust based/self assured peer-to-peer credit creation and circulation system, is the very first digitized version of the widely used analog post-dated cheques in the World. Marmara Credit Loops (MCL) have most of the features provided by the Komodo Blockchain technologies and have been developed based on the way of smart contracts with Custom Consensus (CC) system in Komodo Antara Framework.

In addition to being the very first digital version of the credit loops, due to its structure and conforming operations with the blockchain technology, Marmara Chain is very unique in the world that implements blockchain in such a way.

The credit loops are applied directly onto the blockchain core. It is not possible to intervene, manipulate or change it in any ways.

The properties of the system are summarized below:

Works best in Real Economy: MCL is a DeFi system designed to run in real economy during shopping. Both issuer and holders can earn from 3x staking during shopping in life cycle of a credit loop. Credits in a loop can be endorsed and circulated until maturity date.

Half of blocks comes as activated/locked: 50% of blocks found are already activated/locked. Hence, they readily join in staking process. You can unlock them anytime for spending or lock in credit loops for 3x staking power.

3x staking in Credit Loops: 3x staking when Activating/locking Coins in Credit Loops. They are settled automatically on maturity date and cannot be opened by anyone. But credits may be endorsed to buy goods and services. They act as money during shopping.

Nonmanipulable, nonintervenable credit loops: Credit loops cannot be stopped and credits in loops can circulate during shopping until maturity date. The nodes in a loop is maximum 1000.

Block Rewards: Block time is 1 minute and rewards per block are 30 Marmara (MCL).

75% Staking: Staking is only possible with activated/locked coins. You have the 3x staking power when staking with coins locked in Credit Loops.

25% Mining (PoW): MCL uses Equihash algorithm for Mining with PoW which has only 25% effect in block rewards. You can mine Marmara similar to Komodo and Zcash mining.

To the contrary belief, banks are not the sole institutions for creating money based on credit. In many countries all over the world, like banks, individuals are able to create money through post-dated cheques or promissory notes in a peer to peer manner. They work best in real economy.

Inspired by the paper-based blockchain nature of these promissory notes and post-dated cheques' circulation, in the same analogy, Marmara Credit Loops Project aims to digitalize those credits on the blockchain while solving the problem of non-redemption of these tools.

The early release of this Project, named as Version 1 (Protocol 1), solves the problem of non-redemption with 100% collateralization through trustless blockchain mechanism.

The second Protocol of the Project aims to solve the non-redemption problem based on a trust based blockchain system with the aid of a protective layered architecture of nodes in credit loop layer formed against defaulting.

Protocol 1 Millennium Version:
100% Collateralization Mode
Boosted Reinforcement of Purchasing Power
Issuers and Holders can earn with 3x staking while shopping with Credit Loops.

Protocol 2 Trust Based:
Zero Collateralization
Money Creation via Communities
People can create credits via their escrows in their communities.

Marmara v.1.0

100% Self-assured Credit Loops System

In Protocol 1, all credits are fully collateralized by issuers of credits. Therefore, there is no defaulting risk. For providing this, issuers in credit loops have the right for 3x staking until maturity dates of a credits.

Boosting Purchasing Power

Due to 100% assurance for redemption by issuers, there is no need for an escrow or aval at any point of shopping with credit loops in Protocol 1. Holders, i.e. providers of goods and services in a loop can benefit from 3x staking until they become endorsers by purchasing goods or services from new holders. By this way, they become endorsers and transfer their 3x staking right to new holders. There is no meaning for an endorser to transfer credit unless the transfer is for shopping since he/she transfer the 3x staking power.

MCL is the only staking system in the World where locked coins allow owners staking while they are circulating among people.

Estimation of Staking Rewards
One may estimate the staking rewards by using the formula below. Please note that the formula gives only estimated results which may be varying with parameters such as the number and quantity of both activated and locked-in loop coins, their aging, the internet connection, hard disk speed, number of cores etc. However, the minimum requirement for hardware is low with 2 cores, 4 GB RAM, SSD Harddisk and a reasonable internet connection. You can even stake with a miniPC easily.

$$\left(\frac{\frac{Activated}{TotalActivated} + \frac{Loops}{Locked\ in\ loops} x\,3}{4} \right) x\,30\,x\,60\,x\,24\,x\,0.75$$

Activated: Activated amount (in your wallet)

Loops: Locked in loops (in your wallet)

*TotalActivated: Total activated amount

**Locked in Loops: Total Locked in loops amount

30: MCL per minute

60: Approx number of MCL blocks created per hour

24: 24 hours

0.75: Total staking rate

*,** : For Total Activated and Total Locked in loops amounts, visit here.

Marmara v.2.0

Trust Based Credit Loops

Escrow system and escrow services

Solution to Non-redemption in Trust Based Credit Loops

The requirement definitions have been completed for trust-based blockchain solution (Version 2) but not yet been fully implemented on the existing blockchain. The trust-based system works similarly to the existing trust-based analog blockchain in paper-based check checks, but with several preventive programs (3-layer recommendation), self-assurance is provided against the problem of non-payment (defaulting) or bouncing. In the trust-based blockchain system, the issuer creates a credit similar to the banking system. The difference here is that the credit created in blockchain is circulated in a credit loop, in contrast to the bank credit where the credit generally remains as the contract between the bank and the borrower. Non-redemption problem in trust based credit loops is solved in a unique way.

There are several layers of protection against defaulting, i.e. non-redemption. First of all, the issuance and settlement processes of trust based credit loops will be through Escrows acting as responsibility and trust centers. They can have additional guarantees to be used in case of no refunds.

Issuers and endorsers in the credit loop layer will most likely have active/locked coins to be used as a collaterals in case of defaulting. Avalists' activated funds in community layer may also be used collaterals.

The blockchain fund layer will also be used as a last resort against nonredemption.

Escrow System

In trust-based mode, the issuance or settlement of credit loops are performed by trusted escrow service providers, which act as distributed notaries. Those who provide this intermediary services are called "Escrows". All issuer nodes in credit loops must verify their data by an escrow service to

join the credit loop system. The Escrow system is similar to Notarization system with more responsibilities.

Escrow Services
Mining/staking people can easily use the system with trustless features of Marmara Credit Loops. Data Management is only necessary for necessary people such as credit issuers and for trust based version.

Escrows and avalists in community layer provide an additional layer of trust in the blockchain. Currently, in the analog version of post-dated cheques, cheques are initiated by banks and banks do not issue checks to everyone. In case of promissory notes, avalists are more important. Escrows bear the main responsibility during issuance and settlement of peer-to-peer credits on Marmara system.

Data association for issuers must be through escrows. Escrows may be Web-based escrow services, Crypto Exchanges, Notaries, Post Offices, Law Offices, Credit Unions and even Banks. Not everyone can become an Escrow. Please contact us for details if you want to be an escrow.

To ensure that there is no identity theft in version 2, user (issuer) data should be managed by only through Escrows. This will be done by the Escrows with the their own Know Your Customer procedures, financial credit scoring system etc. Escrows will be responsible during issuance and settlement of trust based credit loops. Therefore, they will have earnings from blockchain fund in third layer planned for Version 2.

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Source: https://marmara.io/marmaracreditloops#marmara_version

What is MCL? What are the Features?

MCL is a native blockchain, native cryptocurrency project inspired by the work of Post-dated Checks and Promissory Notes. For those who don't know, let me tell you. Although the check books for Post-dated Checks are issued by banks, it is an interest-free credit system that is an alternative to the banking system. Tradesmen and businessmen run an alternative credit system in the economy by issuing credit with post-dated checks while selling or purchasing goods and services.

THE PROBLEM OF BOUNCING CHECKS AND OTHER PROBLEMS

Although postdated checks and promissory notes are good instruments, their biggest problem is the bouncing, or non-redemption. This system, which is based on trust, collapses on top of each other with the domino effect, especially in times of economic crisis. MCL is a project developed to solve the non-repayment problem in such credits.

MCL MAIN FEATURES

MCL stands for Marmara Credit Loops in English.

MCL or Marmara Coin is the first native Turkish coin based on a use case in real economy. The good thing is that the system can be used universally anywhere in the world as an international payment system for import and export.

As you know, cryptocurrencies are not widely yet used in the real economy for the exchange of goods and services. MCL, on the other hand, was developed for use in the real economy. You will see its power when you use it.

MCL is a project inspired by the way Post-dated Checks and promissory notes work, and its origins date back to 2013. Based on the "Town Story" told during the Ufuk Hattı TV programmes.

It is an Open Source and International project. It has been developed using Komodo technologies, which is considered Blockchain of Linux, to develop software in the Blockchain World.

Starting from 2013, 4 workshops were held at the university with academicians and business people from Marmara University and other universities, and after the needs were defined, software development was carried out.

The test chain studies of the project, which was developed in Marmara University Engineering Faculty Open Innovation Laboratory, were carried out in 2019 and the chain started its life on January 17, 2020 under the name of Marmara Blockchain.

MCL is Turkey's first Open Source native cryptocurrency project to be mined/staked based on the Proof of Work and Proof of Stake. It was designed to work on real economy.

MCL, also known as Marmara Coin, is based on the idea that buyers and sellers earn block rewards during shopping.

MCL can be staked on a simple MiniPC: No energy consumption and no need for expensive computers, as in other mining Bitcoin etc systems. It can be produced with a second hand PC, the computer you use in your daily work, or even a mini PC you buy especially for this purpose.

You can convert the MCLs you produce with Komodo, Bitcoin and other currencies on the Decentralized Exchange AtomicDEX, and convert them into Lira for purchasing goods and services directly on the market, trading jewelers or elsewhere.

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Source: https://marmara.io/blog/marmara-chain-1/what-is-mcl-what-are-the-features-10

3x Staking Power: Up to 3x staking power on locks in credit loops

Block Reward Per Minute: The block time is 1 minute and the reward distributed per block is 30 MCL

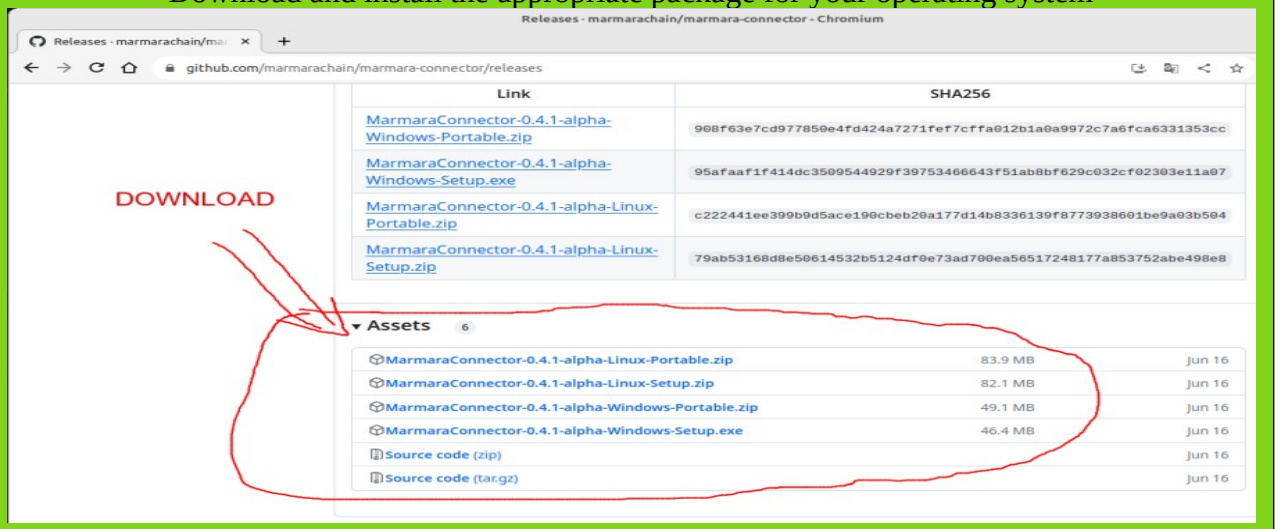
Pre-release: 2,000,000 MCL

Annual Supply : ~ 15,778,800 MCL

INFORMATION NOTE

The simplest way to install a Marmara Chain is to install using the latest version of Marmara Connector. Marmara Connector will check whether the Marmara Chain is installed in your system and if not, it will perform the installation process if you give approval. If you have installed the Marmara Chain on your operating system before installing the Marmara Connector, it will connect and enable you to easily perform your MCL operations through the graphical interface. If you encounter any problems during the installation process, you can get help and support from discord or telegram.

Download and install the appropriate package for your operating system



https://github.com/marmarachain/marmara-connector/releases

How Does MCL Work? How Can You Earn MCL?

HOW DOES MCL WORK?

The way MCL is working is explained in various articles. But let's explain it in a way that everyone can understand.

MCL working logic is very simple. The shortest and most natural way to earn MCL, that is, to produce MCL, is to use it in credit loops during shopping.

EARN WHILE SHOPPING

Let's say you are going to make a purchase as a buyer or seller by using another currency. When you pay in advance, the transaction closes there.

If you shop with MCL with credit loops, you earn as both a buyer and a seller. For example, you make and sell hobby products with resin. You tell the buyer that you can sell with MCL credit loop. If the customer pays in advance, he will not gain anything. You lock the payment to the Marmara blockchain for 100% as collateralization. You can earn MCL rewards with 3x staking power until the credit loop maturity date. Let's say you don't want to wait until the end of the credit's maturity. So you need cash. You will get the material for the resin. You can transfer the credit loop to the supplier (this is called endorsement in postdated checks). Now the person who sells the resin material along with your customer continues to earn with 3x staking rewards. You can also make new loops with another customer.

REINFORCING PURCHASING POWER OF CONSUMERS

MCL credit loops (MCL) is a system that supports the consumer, that is, the customer, and MCL reinforces the purchasing power of the customer. If the customer paid cash in advance, he would gain nothing. But when he did it with the credit loop, he got a chance to participate in 3x staking rewards. A useful system also for the seller; because you are now a manufacturer with high purchasing power customers. You can sell goods or services more easily.

When you decide to make a purchase in installments using the MCL credit loops method, the buyer (issuer) locks the money on the Marmara Blockchain with the terms and installments agreed between both the buyer and the seller, instead of making a cash payment. For each credit loop until the end of the maturity, both the buyer and the seller get a chance to find block rewards on the Marmara Blockchain with 3x staking power. You may have heard of Bitcoin mining. In fact, they earn a reward, namely Bitcoin, by performing a kind of notary public service. They need energy and expensive computing power to earn Bitcoin rewards. To earn the MCL Award, the buyer and seller need to make credit loops during shopping.

Therefore, MCL, Marmara Credit Loops, is a universal system as the first and only DeFi in the World designed to run in real economy to use during shopping. By using MCL Credit loops during shopping, both buyer, buyer and seller earn MCL Coin rewards.

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Source: https://marmara.io/blog/marmara-chain-1/how-does-mcl-work-how-can-you-earn-mcl-9?anim=

Easy Installation of Marmara Blockchain and MCL Coin Production with Marmara Connector

Marmara Connector is an application developed for everyone to easily set up the Marmara Blockchain and start generating MCL coins.

WHAT IS MARMARA BLOCKCHAIN AND MCL?

Marmara Blockchain is a project inspired by credit instruments such as Forward Checks and Promissory Notes, which are produced within the shopping base. On the Marmara Blockchain, you can safely issue (discover) and circulate (turnover) all types of loans without problems such as dishonesty, forgery, indivisibility, and untraceability. Since MCL is a system developed for use in real economy, you can generate MCL while shopping.

Marmara Blockchain is a free blockchain and has its own coin called MCL. MCL on the Marmara Blockchain is not a token but a decentralized coin. The requirements are modest due to Marmara Energy and its processor-free 75% Proof-of-Stake algorithm (PoS). Therefore, Marmara Blockchain can be installed on an ordinary laptop, PC or even miniPC today and MCL coins can be generated on it.

Since MCL is a coin, it works as a kind of notary system. You can earn rewards by being a notary public on the Marmara blockchain. Approximately every minute, a block is issued and 30 MCLs as a block reward are distributed against notary public. You can earn block rewards by keeping your computer open by making credit cycles or locking it in active and keeping records. If you lock MCL in credit cycles to get the reward, you will have the chance to find the maximum reward with 3x staking. Credit Cycles can be used during shopping by endorsement (by transferring to another seller) within the shopping.

REQUIREMENTS TO INSTALL MARMARA BLOCKCHAIN

The requirements for setting up a Marmara Blockchain are very low. It is sufficient to have the following features:

- 64 Bit Operating System
- 4GB of RAM
- Minimum 2 Core Hardware (4 cores recommended)
- SSD 100GB Hard Disk

WHAT IS MARMARA CONNECTOR?

Marmara Connector is an application developed for everyone to easily set up the Marmara Blockchain and start producing MCLs. Since it is necessary to install the blockchain to earn the MCL reward, the blockchain should be easily set up by anyone. That's why Marmara Connector was developed for this purpose.

Marmara Connector is very simple to install and use. It can be run on Windows and Linux Operating System locally on your machine or by installing it on a remote server.

MARMARA CONNECTOR INSTALLATION

Marmara Connector Installation is very simple.

Download and install the latest Marmara Connector Application from Marmara Chain Github Page. Installing the Marmara Connector itself is that simple.

See Releases · marmarachain/marmara-connector · GitHub

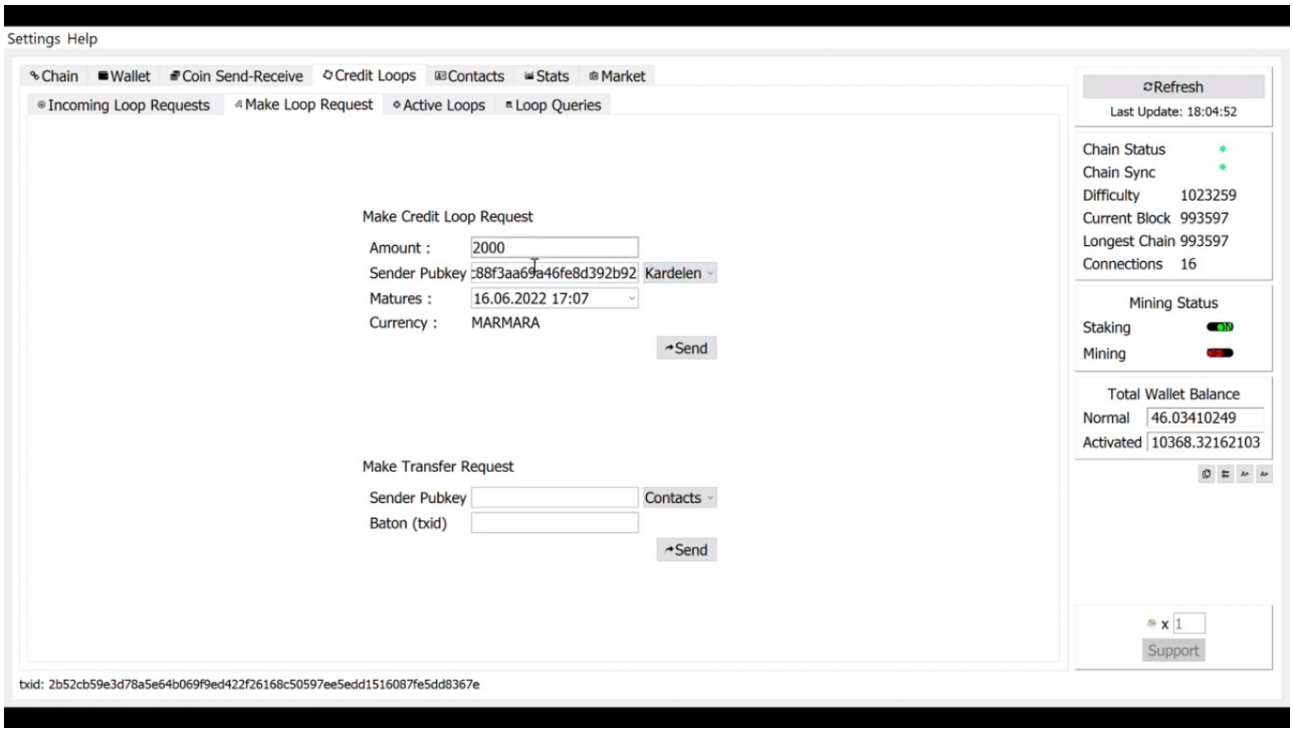
WHAT DOES MARMARA CONNECTOR DO?

Marmara Connector allows you to easily set up the Marmara Blockchain required for your notary public.

It allows you to make all kinds of transactions related to credit cycles while shopping.

It performs all other necessary transactions on Marmara Blockchain, transactions related to MCL coin wallet, and information functions.

The following are the operations that can be performed on the Connector when it is installed.



You can watch the video on the following link about Marmara Blockchain Installation Using Marmara Connector:
https://youtu.be/irb4y3iOsp8

BLOCKCHAIN SYNCHRONIZATION

Blockchain is a distributed notary public and unlike central database systems where the record is kept in only one place, each node (notary) keeps the same data. For this, he is entitled to a prize. Therefore, it is thousands of times safer where records are kept in a central location (eg banks etc.). You cannot perform notary transactions etc. on the chain without keeping all historical database records. Below are the synchronization procedures.

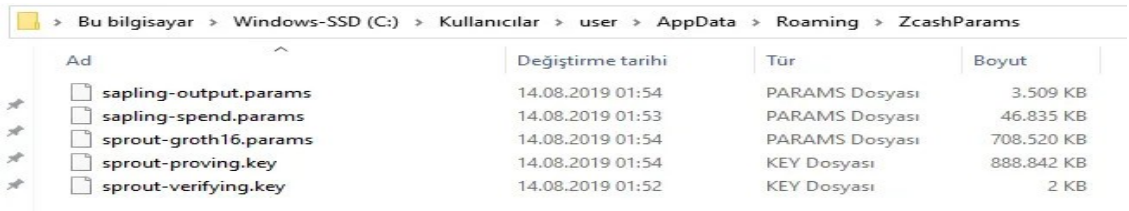
https://youtu.be/n0TG93mXjBk

POSSIBLE PROBLEMS DURING INSTALLATION OF MARMARA CONNECTOR

Marmara Connector does 3 things.

1. It downloads the necessary files to run the Marmara Blockchain. You must have the curl program installed to download it. If it is not installed on some Windows systems, it must be installed manually.

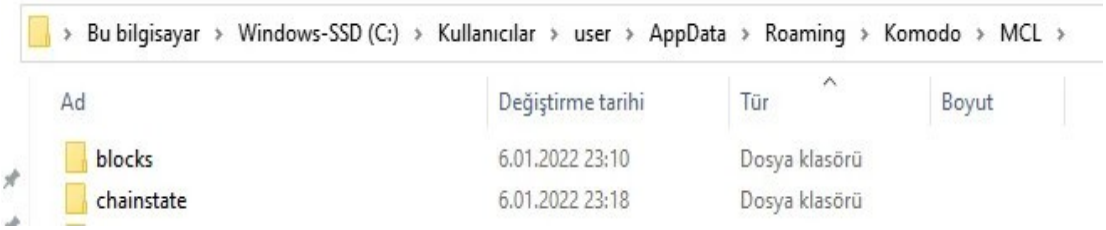
2.For Marmara Blockchain transactions, the following program files related to Marmara should be available under the C:\Users\user\AppData\Roaming\ZcashParams directory. Note: Pay attention to the files as below and their lengths.


Bu bilgisayar › Windows-SSD (C:) › Kullanıcılar › user › AppData › Roaming › ZcashParams
Ad
Değiştirme tarihi
Tür
Boyut
sapling-output.params 14.08.2019 01:54 PARAMS Dosyası 3.509 KB
sapling-spend.params 14.08.2019 01:53 PARAMS Dosyası 46.835 KB
sprout-groth16.params 14.08.2019 01:54 PARAMS Dosyası 708.520 KB
sprout-proving.key 14.08.2019 01:54 KEY Dosyası 888.842 KB
sprout-verifying.key 14.08.2019 01:52 KEY Dosyası 2 KB

3. The programs required for all transactions related to Marmara Blockchain should be downloaded under the C:\Users\user\marmara folder as follows. Note: Pay attention to the files as below and their lengths.

Bu bilgisayar › Windows-SSD (C:) › Kullanıcılar › user › marmara
Ad
Değiştirme tarihi
Tür
Boyut
fetch-params 1.06.2021 11:12 Windows Toplu İş ... 2 KB
komodo-cli 11.06.2021 09:24 Uygulama 6.380 KB
komodod 11.06.2021 09:24 Uygulama 56.927 KB
MCL_7776 6.01.2022 23:18 Dosya 4 KB
MCL_start 1.03.2021 16:05 Windows Toplu İş ... 1 KB
MCL_stop 1.03.2021 16:05 Windows Toplu İş ... 1 KB
MCL-win 1.09.2021 18:35 Sıkıştırılmış Klasör 19.240 KB
README 1.03.2021 16:20 Metin Belgesi 1 KB
wget64 1.03.2021 16:05 Uygulama 3.865 KB

4. All data of historical blockchain records. The safest way to do this is to wait for it to be downloaded live. When you start the chain after installing it, it will be downloaded automatically in Marmara Connector. When all data is downloaded, it is said to be synchronous. You can sync quickly by downloading the daily updated Bootstrap file here for a quick download. Marmara Connector does this in itself. Bootstrap file should be opened under MCL folder in C:\Users\user\ AppData\Roaming\Komodo\MCL directory. After stopping the synchronous chain, you can use the backup of the two folders when the chain data is corrupted.


Bu bilgisayar › Windows-SSD (C:) › Kullanıcılar › user › AppData › Roaming › Komodo › MCL ›
Ad
Değiştirme tarihi
Tür
Boyut
blocks 6.01.2022 23:10 Dosya klasörü
chainstate 6.01.2022 23:18 Dosya klasörü

Bootstrap backup is taken daily in https://explorer2.marmara.io/bootstrap

Alternative link :
https://eu.bootstrap.dexstats.info/MCL-bootstrap.tar.gz

Note for Bootstrap: Bootstrap only has the blocks and chainstate folder. Two is enough. After stopping the chain delete all existing folders except wallet.dat. Then open the two folders. You don't even need to download bootstrap. From time to time, stop the synchronized chain and back up the blocks and chainstate folders. Here are your own Bootstrap files.

You can get information from the following sources:
Marmara Website: https://marmara.io
Marmara Discord Group: https://marmara.io/discord
Twitter Marmara: https://twitter.com/marmarachain
Marmara Credit Loops Youtube Channel: https://www.youtube.com/channel/UC_Ym-tICCd7ATlBU_1ToEKw/videos

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Sources:

- https://marmarachain-mcl.medium.com/marmara-connector-ile-marmara-blokzincirinin-kolay-kurulumu-ve-mcl-koin-%C3%BCretimi-1a1e56fadfa7
- https://marmara.io/discord

How to make Marmara Credit Loops

The current Marmara Credit loops currently work based on Protocol 1 which is in 100% collateralization mode. 100 % collateralization is made by issuer on behalf of both himself/herself and holder. Both issuer and holder have the 3x staking chance to get blockchain rewards. Issuer has the 3x staking chance until maturity date of credit whereas holder has the 3x staking chance until he/she endorses/transfers the credit to a new holder who will continue staking with the issuer. The Credit loops can be made using only activated coins.

Terminology

Issuer: The person who first creates a credit in a credit loop. It is the person who forms the first node in the credit loop. The credit may be collateralized 100% or with even zero-collateralization until maturity date of a credit.

Bearer (Holder): The last node in a credit loop is always called bearer (holder). When someone transfers a credit in a loop, that node becomes immediately an endorser.

Endorser: All other nodes that fall between the issuer, which is the first node in the credit loop, and the last node, and transfer the credit to the next node.

Maturity: The time a credit expires. It is measured as blocks in estimation. The block per day is 1440 (60 blocks an hour times 24 hours a day). Suppose a credit is for 100 days, the maturity is 1440x100, i.e. 144,000 blocks.

Settlement: When a credit matures, settlement is made to the holder, the last node in a loop. Settlement may be automatic or manual.

Creating Marmara Credit Loops

You must have enough active/locked coins to create a credit loops or transfer them to the next node. You can use the locking operation for this.

In order to initiate and transfer the credit loop, peers (p2p) must know each other's public key address.

Staking cannot be done with normal coins. You must first lock the amount you want to stake. When locking, it is recommended to lock it in small sections such as 300&500&1000 MCL at a time. Similarly, when transferring to loops, it will be useful to create loops in pieces instead of locking them all at once. Throwing a smaller number of single hooks increases the chances, rather than one large single-hook line at a time. It also speeds up loops. Because this locked payment information is used in loops.

You can start making consistent profits 8-10 days after you start staking. We can compare the initial waiting period to a kind of incubation process. But if you lock it in small pieces like 300 & 500 MCL and then include them in loops, you have a chance to find the blocks faster. Under these conditions, if you start with a sufficient amount of MCL, you can find a block even from the first day.

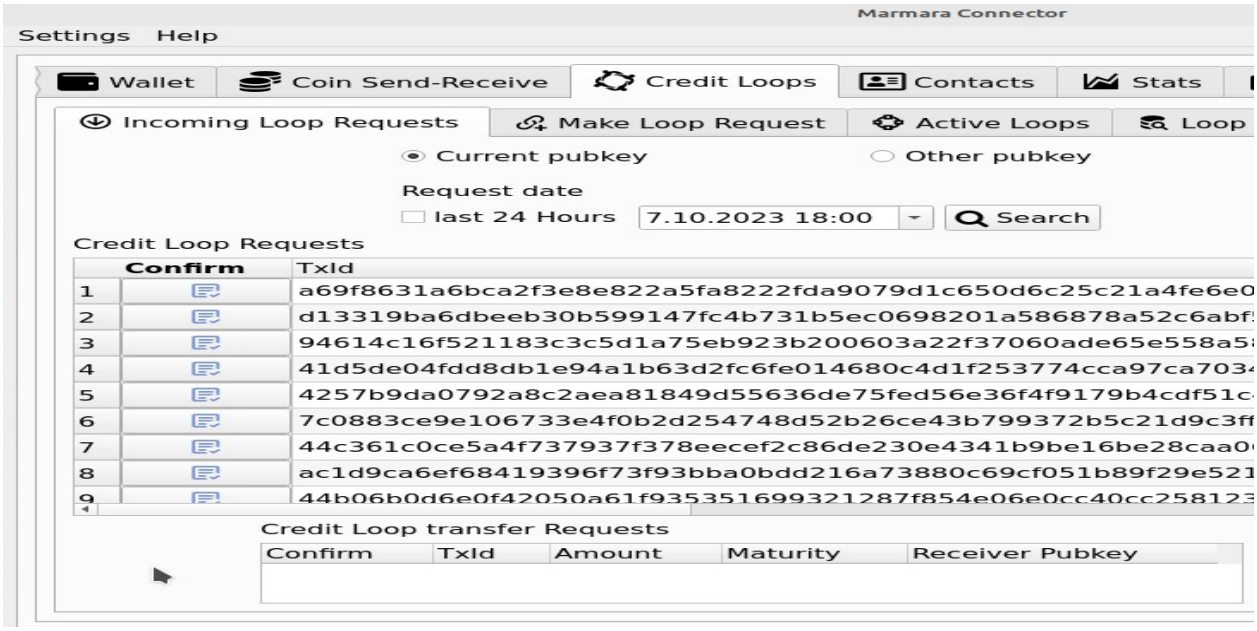
In order to use Marmara credit loops, the user is expected to have a pubkey and start the chain with this pubkey. It is necessary to have a pubkey in order for the coins earned through mining and

staking to be transferred to the account. If the chain is not started with pubkey, mining and staking operations will be wasted.

During the specified period, credit loops can circulate in the economy in exchange for goods and services up to the 1000th node.

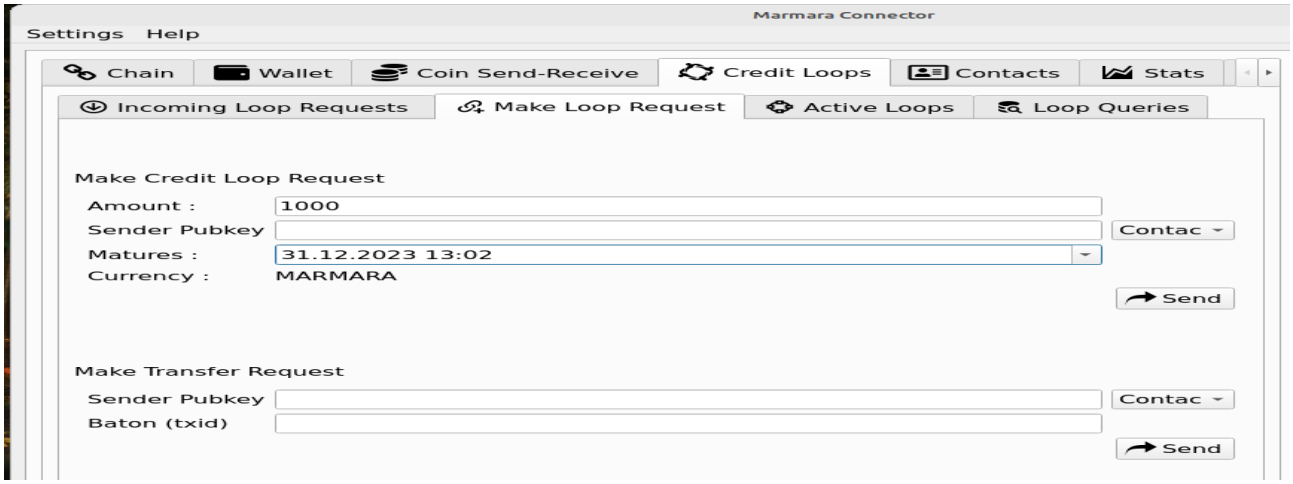
In order to initiate credit loops, even a small amount such as 0.1 MCL in the holder requesting the cycle is sufficient.

You can easily lock and unlock MCL under the Marmara Connector "Wallet" tab.



You can see and accept easily incoming Marmara credit loop request and transfer requests under Marmara Connector “Credit Loops - Incoming Loop Request” tab.

For example, you intend to buy a product, in this case, the product seller takes your pubkey and address information and requests a credit loop for a period you specify. You confirm the request and make the payment. Until the end of maturity, the buyer of the product will benefit from 3x staking power, and the seller of the product will benefit from 3x staking as long as he does not transfer the loop. According to the staking account on January 2, 2024, at the end of the 1-year maturity, the seller will have sold his product with a 32% annual profit, while the buyer will have purchased it at a 32% discount.



You can make Marmara credit loop request and transfer request under Marmara Connector “Credit Loops - Make Loop Request” tab.

Backing Up Your Wallet

It is very important to back up the wallet.dat file. One method to back up this file is to make a copy and archive it. On Windows machine the file is located below:
%HOMEPATH%\AppData\Roaming\Komodo\MCL\wallet.dat

On macOS, the Wallet.dat file is located here: ~/Library/Application\ Support/Komodo/wallet.dat

On a linux machine the file can be found at: ~/.komodo/MCL/wallet.dat

Wallet.dat file, your 12-word seed phrase and private key are your personal information that you should not share with anyone. We advise you to be alert to fraudulent attempts to obtain this information, as obtaining any of these means you are no longer the sole owner of your coins in the relevant account, so you run the risk of losing your savings. Fraud attempts are made by imitating the profiles of trusted people, especially on Discord and Telegram. Never share these passwords and your wallet (wallet.dat file) with anyone.
****

Sources:
* https://github.com/marmarachain/marmara/wiki/How-to-make-Marmara-Credit-Loops
* Shares on Marmara Discord

References

For more detailed information on how Marmara Credit Loops work, kindly refer to detailed article here: https://medium.com/@drcetiner/how-marmara-credit-loops-mcl-work-31d1896190a5

Understanding Marmara Chain

Marmara Chain stands out in the blockchain world with its hybrid consensus mechanism, employing 25% Proof of Work (PoW) and 75% Proof of Stake (PoS). This innovative blend ensures secure, decentralized control while promoting an efficient and scalable network. Most blockchains use Proof of Work (PoW) or Proof of Stake (PoS) consensus mechanisms. PoW involves solving complex puzzles to add a new block to the blockchain (think of it like a digital mining process). PoS, on the other hand, involves holding and locking up a certain amount of tokens to validate a new block (imagine notaries getting rewards based on their shares in a common fund but with a self-financing mechanism).

The Marmara Credit Loops (MCL) Solution

At the heart of Marmara Chain is MCL, a system that brings unprecedented liquidity and utility to traditional financial instruments even before their maturity dates. But that's not all. MCL takes the unique approach of 'activating' and 'locking' coins for staking, providing varying degrees of staking power - 1x for activated and a whopping 3x for those locked within credit loops. The best part? Activated coins can be unlocked anytime, offering a level of liquidity unheard of in traditional staking systems while coins locked in credit loops can still be circulated in real economy by simply endorsing same as post-dated checks.

Revolutionizing Transactions with Credit Loops

Credit loops act as digital versions of post-dated checks or promissory notes, offering unique benefits. Coins locked in credit loops not only boast 3x staking power but can also be circulated in the real economy simply by endorsing them. This way, they continue contributing to the staking power of the holder while serving real-world transactions. Upon the maturity date, they are automatically unlocked.

Mining and Earning MCL Coins

MCL coins, the native currency of Marmara Chain, can be earned in more ways than one. Thanks to the 25% PoW consensus mechanism, they can be mined. Alternatively, they can be earned by selling or buying goods and services within the Marmara Credit Loops system.

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Source:
https://marmara.io/blog/marmara-chain-1/the-ultimate-simplified-guide-to-marmara-chain-and-marmara-credit-loops-54

Marmara Connector

Marmara Connector Kurulumu

Sürümlerden Marmara Connector Kurun

Marmara Connector yüklemek için Releases'den Assets seçenekleri arasında size uygun olan sürümü seçip kurulumu gerçekleştirebilirsiniz.

- **Ubuntu Kurulumu**

İlgili .zip dosyasını indirin ve dosyayı açın.
Uygulama dosyasının çalışmasını etkinleştirmek için:

```
chmod +x MarmaraConnector
```

MarmaraConnector'e mouse ile sol tıklayarak özelliklerden "çalıştırılabilir" işaretleyerek aynı işlemi yapabilirsiniz. Bu işlemi gerçekleştirdikten sonra MarmaraConnector'e çift tıklayarak çalıştırabilirsiniz. Çalışınca sisteminizin root şifrenizi soracaktır, şifreyi girerek kurulumu yapabilirsiniz.

- **Windows Kurulumu**

İlgili .exe dosyasını indirin. Uygulama yüklendikten sonra yönetici olarak çalıştırın.

Windows işletim sistemi ortamını farklı python sürümleriyle ayarlamak için bakabilirsiniz:
https://medium.com/swlh/how-to-set-up-a-virtual-environment-with-a-different-python-version-on-windows-10-9900eb0acf9a

Linux & Windows

Sistem Gereksinimleri

- Linux (Ubuntu gibi Debian tabanlı bir dağıtımla kurulum daha kolay gerçekleşir)
  Ubuntu için Ubuntu 20.04 LTS veya 22.04 LTS sürümleri önerilir.
- Windows'taki kurulumlar için Windows 10 veya Windows 11 sürümleri önerilir.
- 64-bit İşlemci
- Minimum 4 çekirdekli CPU (8 çekirdekli tavsiye edilir)
- Minimum 4GB RAM (8 GB RAM tavsiye edilir)
- 100 GB SSD

Experience the Power of MCL Staking on Marmara Chain: Unlocking Unique Benefits in the Crypto Economy

Marmara Chain, a fork of the Komodo Platform, is revolutionizing the world of staking with its unique and powerful staking mechanism. Offering unparalleled flexibility, Marmara Chain's innovative MCL staking system presents a myriad of advantages over traditional staking platforms. In this article, we'll explore the incredible benefits of staking MCL on Marmara Chain and how it's set to transform the cryptocurrency landscape.

1. No Minimum Staking Requirement: *Freedom to Stake Any Amount*

Unlike other staking platforms like Ethereum, which require a minimum of 32 ETH to participate in staking, **Marmara Chain has no minimum staking requirement.** This means users can stake any amount of MCL, making it accessible and affordable for everyone interested in earning rewards through staking.

2. Flexible Staking: *Unlock Your Coins* Anytime

Marmara Chain's staking system allows users to unlock their staked coins whenever they need them. This flexibility contrasts with other staking platforms where coins are locked for a fixed period, such as six months, with no option to unlock them until the end of the staking term. Marmara Chain's staking system empowers users to retain control over their assets and use them as needed.

3. Marmara Credit Loops: *Boost Your Staking Power by 3x*

Marmara Chain's unique staking mechanism offers two ways to lock coins for staking: activated staking mode and Credit Loops. Activated staking mode provides 1x staking power, while Credit Loops give users an **impressive 3x staking power**. This increased staking power can significantly boost rewards and make MCL staking even more lucrative for participants.

4. Circulation of Staking Coins in the Real Economy

One of the standout features of Marmara Chain's staking system is the ability to circulate staking coins in the real economy. Coins locked in Credit Loops can be transferred or endorsed to other users before their maturity date, similar to post-dated checks or promissory notes. This innovative approach encourages the use of MCL in real-world transactions while still providing staking rewards.

5. 100% Collateralization: *A Secure and Trustworthy System*

Marmara Credit Loops are fully collateralized on the Marmara blockchain, ensuring a secure and trustworthy staking system. This level of security eliminates the risk of non-redemption often associated with traditional credit tools, such as post-dated checks, and provides peace of mind for MCL stakers.

Conclusion:

Marmara Chain's groundbreaking MCL staking system offers unparalleled flexibility, increased staking power, and the unique ability to circulate staking coins in the real economy. By eliminating minimum staking requirements and allowing users to unlock their assets at any time, Marmara Chain has positioned itself as a leader in the world of cryptocurrency staking. Discover the incredible potential of MCL staking on Marmara Chain and experience the future of decentralized finance today.

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Source:
https://marmara.io/blog/marmara-chain-1/experience-the-power-of-mcl-staking-on-marmara-chain-21

Transactions on Cryptocurrency Exchanges and Obtaining MCL

There are three exchanges where you can trade MCL:
https://atomicdex.io/en/downloads/
Safe.trade
Nonkyc.io

Since there is no direct exchange between TL and MCL in the stock exchanges yet, we will try to explain the ways that can be followed in buying and selling. First, it is necessary to exchange TL with other intermediary crypto units (BTC, USDT, LTC, etc.) and transfer it to the exchanges where we can purchase MCL. There are alternatives such as Binance Turkey, BTCTurk and others for crypto purchases with TL. Identity confirmation is required to transfer crypto money at the exchange where you buy crypto with TL. Once you have your identity confirmed at the exchanges and completed the waiting period, if any, for the transfer, you will be able to make the transfer. For membership procedures, you can check out these relevant pages:

For trbinance.com (Binance Türkiye) :
https://www.trbinance.com/tr/support/faq/account-functions-guides/727a8a3f2e0f4dffa6630bc9b5e2dda2
https://www.trbinance.com/tr/support/faq/kyc/18f81821e61b4bbbb8e33ba0b6ff07d6

For binance.com (Binance global) :
https://www.binance.com/tr/support/faq/binance-uygulamas%C4%B1nda-nas%C4%B1l-kay%C4%B1t-olabilirsiniz-360042718372
https://www.binance.com/tr/support/faq/kimlik-do%C4%9Frulamas%C4%B1-nas%C4%B1l-tamamlan%C4%B1r-360027287111

For btcturk.com:
https://bilgibankasi.btcturk.com/hc/tr/articles/360011741098-BtcTurk-e-Nas%C4%B1l-%C3%9Cye-Olabilirim-
https://bilgibankasi.btcturk.com/hc/tr/articles/360011678437-BtcTurk-C%C3%BCzdan-Aktivasyonu

We added these three exchanges to explain how the system works. After you understand how transactions are carried out in these exchanges, you can check for yourself whether there are more suitable opportunities in other "TL - cryptocurrency" exchanges.

When you send TL to your account on cryptocurrency exchanges, the money appears in your account as it is. (Of course, unless your bank makes a deduction) (This is the case for Binance TR and BTCTurk, we can say that the situation is generally the same, at least at the time of writing this article*) You cannot make purchases with TL from Binance global, that will take you to Binance Turkey (TRBinance). directs for this process.

TL deposit-withdrawal pages:
https://www.trbinance.com/blog/support-center-guides/binance-tr-hesab%C4%B1n%C4%B1za-nas%C4%B1l-t%C3%BCrk-liras%C4%B1-yat%C4%B1r%C4%B1l%C4%B1r%3F-82189e6491d9486fb04cf50588657106
https://www.trbinance.com/fees/schedule
https://kripto.btcturk.com/yardim/yatirma-cekme
https://kripto.btcturk.com/yardim/limitler-ve-kurallar

It is not possible to buy and sell "cryptocurrency - TL" with balances below 100 TL on BTCTurk. In TRBinance, the minimum order amount for "TL-crypto" transactions is 10 TL. (on 26.11.2023)

Trading rules:
https://www.trbinance.com/trade-rule
https://bilgibankasi.pro.btcturk.com/hc/tr/articles/360012003838-Minimum-Al%C4%B1m-Sat%C4%B1m-Limitleri-Nelerdir-

You should keep in mind that after the TL appears in your account, exchanges charge a certain commission for the TL - cryptocurrency exchange and the purchases and sales of cryptocurrencies among themselves. Since these commissions can be updated, it is useful to follow the rates on the relevant pages of the exchange you are trading on:
https://www.trbinance.com/fees/schedule
https://kripto.btcturk.com/yardim/komisyonlar
https://www.binance.com/tr/fee/trading

Pairing your Binance and TrBinance accounts allows you to receive some units such as KMD that are not available on TRBinance. With Binance transfer, you can transfer crypto currencies to your Binance global accounts free of charge, and in the same way, you can withdraw your global crypto savings to your TRBinance accounts.
How to Match Binance and Binance TR Account? :
https://www.trbinance.com/blog/5/0b697802eff64f2d800f4cd2abb7b0e6

After purchasing cryptocurrency with TL, you can make the transfer for MCL purchase. (Of course, if you have completed the waiting periods for cryptocurrency transfers in the exchanges, if any) You can make transfers through the blockchain networks supported by both exchanges you will make the transaction. It will be more economical to make transactions through networks with low withdrawal fees. However, before making transactions with networks with low withdrawal fees, you should carefully check whether you can reach the cryptocurrency you want to buy MCL or similar with this cryptocurrency on the opposite exchange. For example, if you transfer LTC to the safe.trade exchange, you can transfer to the LTC-BTC & LTC-USDT markets and the MCL-BTC & MCL-USDT markets. It is useful to check in advance whether the exchanges you plan to switch to are active (whether there is an opportunity to buy or sell at an affordable price without waiting too long).

https://www.binance.com/tr/fee/cryptoFee
https://kripto.btcturk.com/yardim/komisyonlar
https://kripto.btcturk.com/yardim/limitler-ve-kurallar

After checking the withdrawal fee you will pay for the transfer, the minimum withdrawal fee you can make (it is written on the withdrawal page, you will receive a warning if you try to send it below), and whether the other exchange has that network, you should also check the minimum deposit fee in the exchange you will make the transfer to. Unfortunately, stock exchanges do not pay much attention to tears for amounts below the minimum deposit amount. Relevant links of the stock exchanges where you can make these checks in MCL trading:
https://nonkyc.io/fees

https://safe.trade/fees
Additionally, for final checks, you can find information not included in these links on the deposit and withdrawal pages of the relevant coins.

In Komodo Wallet, you can see the advantages that decentralized platforms provide to users. No transaction fees are charged from market makers in buying-selling transactions. However, buyers are charged a 0.13% fee. For buyers using Komodo (KMD), the transaction fee is discounted by 10%, making it only 0.117%. Decentralized platforms do not charge any withdrawal fees but do charge network costs that are paid to the validator of the relevant blockchain.

To make a comparison for buying and selling transactions, Binance receives 0.1% from the buyer and market maker (75 per hundred thousand if commission payment approval is given with BNB); 0.08% from market maker and 0.12% from buyer at BTCTurk; While there is no commission for the market maker in Komodo Wallet, it is 0.13% for the buyer (0.117% if they hold KMD); Safe.trade 0.1% from taker and market maker (was before server upgrade-interface change); Nonkyc.io charges a commission of 0.2% from buyers and market makers (discounts are provided for those who hold NonKYC Tokens, and there is also a 25% discount if commission payment is made with nonkyc).

When we compare withdrawal fees, Komodo Wallet, which is a decentralized platform, appears to be ahead by far as it only reflects network costs to users. Nonkyc.io has set the withdrawal fee as 1 USD for all units, and the advantage of nonkyc.io is the commission income it provides to users with its liquidity pools. Binance, BtcTurk and safe.trade add withdrawal fees to the transfer fees at varying rates. You can follow the current fees from the links we shared in the article.

Let's give an example of some coins with low withdrawal fees on Binance:
LTC (via Litecoin network): 0.001 LTC (Approx. 2 TL)
ETC (via Ethereum Classic network): 0.008 ETC (Approx. 4.50 TL)
RVN (via Ravencoin network): 1 RVN (About 52 cents)
AVAX (via Avalanche network): 0.008 AVAX (Approx. 4.95 TL)
BNB (with BNB Smart chain - bep20): 0.0005 BNB (Approximately 3.37 TL)
BTC (with BNB Smart chain - bep20): 0.0000074 BTC (Approx. 8.07 TL)
USDT(with BNB Smart chain - bep20): 0.3 USDT (Approximately 8.67 TL)
KMD (with Smart chain): 0.002 KMD (Approximately 1.5 cents)

You can withdraw with BTC for free at BTCTurk. However, the minimum withdrawal amount is 0.0005 BTC (Approximately 543 TL). The minimum BTC withdrawal amount with Binance BNB Smart chain - bep20 is 0.000015 BTC. (Approximately 16.36 TL) Therefore, BTCTurk can be preferred for BTC transfers over 550 TL, and Binance can be preferred for lower amounts.

Currently, Binance seems to be more advantageous in sending USDT with the BNB Smart chain (bep20) network. (For exchanges where you can buy MCL)

For AVAX (for Avalanche c-chain and Avalanche x-chain networks) withdrawal, BTCTurk stands out with its withdrawal fee of 0.005 Avax (approximately 3.07 TL).

Another alternative is to switch to other exchanges by purchasing RVN from TRBinance. MCL purchase can be made by converting RVN into one of the units traded with MCL on the relevant stock exchange.

After switching to Binance global with a free Binance transfer by purchasing USDT or BTC from TRBinance, you can purchase MCL with Komodo Wallet by purchasing and transferring KMD.

LTC is one of the important coins that allows economical transfer between exchanges with low transfer fees.

MCL is a coin with its own intelligent chain and extremely low transfer fees. The withdrawal fee on Komodo Wallet is only 0.00001 MCL. (Approximately 0.000005 TL) Safe.trade applies a withdrawal fee of 0.01 MCL (Approximately 0.005 TL). As you know, Nonkyc.io applies a standard fee to all coins.

As a result, if you understand how the system works among blockchain networks, you can determine your own path and review different alternatives. You can progress by making advantageous purchases and sales across networks.
We made the center kick and passed the pass to you, now the ball is in your court :)

Buying MCL with BTC

Free withdrawals with BTCTurk BTC network for purchases over 0.0005 BTC • (Approximately 545 TL). The minimum withdrawal amount is 0.0005 BTC. (Approx. 545 TL)

For purchases below 0.0005 BTC (Approximately 545 TL), transfer via TRBinance BSC-BEP20 network with a withdrawal fee of 0.0000074 BTC (Approximately 8.07 TL). The minimum withdrawal amount is 0.000015 BTC. (Approx. 16.36 TL)

Note: When making a withdrawal, also take into account the minimum deposit amounts of the other exchange.
Post date: 26th November 2023

Buying MCL with USDT

* Buying USDT with TRBinance
* Switching to other exchanges where MCL can be purchased via the BSC-BEP20 network (withdrawal fee 0.30 USDT)
Date: 26th November.2023

Buying MCL with LTC

* Buying LTC with TRBinance or BTCTurk
* Transfer to other exchanges with LTC Litecoin network (0.001 ltc **approximately 2 TL** with withdrawal fee)
* BUY IF LTC-MCL EXISTS, OR switch to MCL purchase via BTC-LTC or USDT-LTC exchange

Purchasing MCL with KMD

* Buying USDT or BTC with TRBinance
* Switching to Binance global with Binance transfer
* Swap KMD-USDT or KMD-BTC
* Transfer to Komodo Wallet via KMD Komodo network
* KMD-MCL swap

PURCHASING MCL WITH RVN

* Purchase RVN from TRBinance
* Switching to other exchanges with the RVN Ravencoin network
(1 RVN **Approximately 0,52 TL** withdrawal fee) * RVN-BTC or RVN-USDT or RVN-LTC or RVN-KMD exchange (Whichever is available and active)
* MCL purchase with swapped unit

Note: The calculations in this article were made according to the exchange rates on November 26, 2023.

*This article was prepared while the law on cryptocurrencies was in draft form.

MCL Concise Beginner's Guide

1) Download and install Marmara Connector. The installation process will automatically help you synchronize the chain. (When synchronization occurs, the connector will turn green against "Chain Status" and "Chain Synchronous", this process may take up to 1-2 days depending on different factors. You can observe how many more days of blocks will be loaded against "Chain Synchronous". The connector shows not how many days are left, It gives information about how many days of blocks are left.) You can check what action has been taken in the Connector via notifications in the lower left corner.

2) Opening staking and mining without synchronization may cause the blocks to become corrupted. Also, obtaining a wallet address without synchronization will slow down synchronization. After synchronization, you can add an address or addresses with the “Add New Address” option in the “Chain” tab. Then stop the chain and start it with one of the wallet addresses you received.

3) Buy MCL and send it to one of your Marmara Connector wallet addresses.

4) Lock the MCLs you send to your Connector address in parts with the “Lock from Normal Balance” option from the Wallet tab. Congratulations! You started 1x staking with the MCLs you locked.

5) With the "Incoming Loop Requests" in the Credit Loops tab, you can see the credit loop requests you receive and approve the ones you wish. After this process, you will start staking with 3x power. You can also submit your loop requests with the “Request Loop” option in the Credit Loops tab, the MCL amount in your approved requests will be staking 3x, as long as you are a holder. You can use the MCLs you hold in the loops by approving any of the transfer requests you receive with the "Credit Loops-Incoming Credit Requests-Credit Loops Transfer Request" option. However, in that case, 3x staking power will be transferred to the new owner. You can track your staking earnings by selecting and searching the date range you want to see from the "Statistics-Earnings Statistics" tab.

6) If you do not want to participate in the cycles and just want to own or accumulate MCL, you can do this by having an MCL address through Komodo Wallet. Another alternative is the “Zincir Market” application, which is still in the testing phase, where you can shop commission-free and sell your products with MCL.

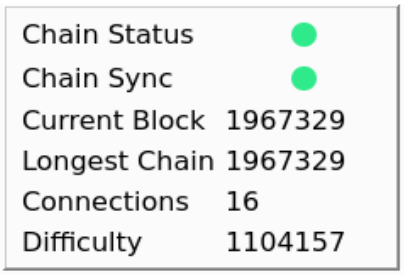
https://marmara.io/
https://marmara.io/blog/
https://marmara.io/discord
https://www.youtube.com/c/MarmaraCreditLoops
https://github.com/marmarachain
https://t.me/MarmaraChain
https://marmara.io/docs/IMSS2019_WhitePaper_Turkce.pdf
https://coinpaprika.com/tr/converter/mcl-marmara-credit-loops/try-turkish-lira/1/
https://www.coingecko.com/en/coins/marmara-credit-loops

Where to Buy MCL: https://atomicdex.io/ https://safe.trade/ https://nonkyc.io/

Answers to Frequently Asked Questions

The simplest way to install a Marmara Chain is to install using the latest version of Marmara Connector. Marmara Connector will check whether the Marmara Chain is installed in your system and if not, it will perform the installation process if you give approval. If you have installed the Marmara Chain on your operating system before installing the Marmara Connector, it will connect and enable you to easily perform your MCL operations through the graphical interface. If you encounter any problems during the installation process, you can get help and support from discord or telegram. Download and install the appropriate package for your operating system from https://github.com/marmarachain/marmara-connector/releases

MCL can be moved economically between cryptocurrency exchanges and converted into other values with low transfer fees.



The synchronization time of the Marmara chain varies depending on your network connection speed, your computer's processor power, the read-write speed of your drive where the blocks are recorded, and similar factors. Synchronization can be completed in up to 1 day under good conditions, or in 2-3 days under slightly more disadvantageous conditions, but on computers that barely meet the minimum requirements, the synchronization period may take longer. You can monitor the synchronization time via Marmara Connector. In cases where the synchronization time may be long, you can speed up the process with bootstrap. (Bootstrap is not recommended, it is better to perform the synchronization yourself.) When synchronization is achieved in Marmara Connector, it will light green against chain status and chain sync as shown in the picture. Do not open staking or mining without synchronization, you may corrupt the database and have to synchronize again. When synchronized, we recommend creating a wallet address, transferring MCL to your account, then creating loops. It takes more time to find with 1x. Half of the rewards are normal coins and the other half are active coins. Normal coins are shown in odd blocks and active coins are shown in double digits. The contents of single-digit coins appear on the Explorer, while those with double digits are the smart contract addresses of active coins. From the outside it appears as zero on the Explorer, but it is not zero. The power of credit cycles is much greater when staking on Marmara Chain. Sometimes it can even exceed 3x. If everyone is locking in the loop, the loops can drop to just under 3x.

It would be a good idea to take a look at the Zincir.market application which allows you to shop with MCL and you can sell your own products with MCL without commission.

Mining is not recommended unless you have a powerful computer with high processing power. If you are going to do it, it would be better to use a suitable machine for this job. Recommended are Asic miner devices. Instead of mining, you can produce MCL by staking with simpler computers.

Bootstrap backup is taken daily in the second browser. https://explorer2.marmara.io/bootstrap

To see the latest current status in the system, the last block status and the current block status must be synchronized. For example, let's say someone sent you 5 MCLs, you saw it in your account. However, there was a problem in the following days and you started to load the blocks again from scratch. You will not be able to see the 5 MCLs in your account until the corresponding block is uploaded. So what you see on your system is the status of the last block you loaded.

For Ubuntu or Linux Mint: If you install the Marmara chain in advance, you can keep it in the src folder in the marmara folder in your home directory so that the Marmara Connector system can find it (with komodo-cli and komodod inside the directory)

Related formulation for staking account:
([(MyActivated/TotalActivated)+(MyLoops/TotalInLoops)]*3)*8100

During the installation process with Marmara Connector, you may encounter problems such as curl installation problems or zip files not opening, especially on Windows systems older than Windows 10. In this case, you can get around the problem by unzipping the zip file yourself or installing curl yourself.

You can perform automatic installation on the virtual server with Marmara Connector. There is no need to deal with codes anymore. After selecting the host option instead of local, simply enter details such as IP address and password. Connector does the rest. The chain runs on the server independently of the Connector. The connector is only for connecting and doing control and similar works.

How to Start Loops from Command Line
Loops are done between two people. So you need someone else to issue or receive. It is easier when you shop with MCL. The receiver will type the following command line:
marmarareceive “pubkeyofissuer” MCLamount MARMARA time '{"avalcount":"0"}'

Time is set in minutes. As there are 1440 minutes in a day, you have to multiply day number by 1440. If you want to receive 300 MCL in 3 months, type the following command line by changing issuer’s pubkey:
marmarareceive “pubkeyofissuer” 300 MARMARA 129600 '{"avalcount":"0"}'

This will give you hex, you need to type sendrawtransaction HEXnumber. This step will generate TXID which has to be send to the issuer.

The issuer needs to type the following command line to confirm the loop:
marmaraissue "receiver’s pubkey" '{"avalcount":"0", "autosettlement":"true", "autoinsurance":"true", "disputeexpires":"0", "EscrowOn":"false", "BlockageAmount":"0" }' TXID provided by the receiver

And type sendrawtransaction hexnumber as well.
That’s all 🙂

You can find the answers to the different questions you are looking for on Marmara Discord or Marmara Telegram channels.

Links

Official Website:
http://marmara.io/

History:
https://marmara.io/tr/history

Team:
https://marmara.io/tr/aboutus

Wallets:
https://marmara.io/tr/wallet

You can buy MCL from:
https://atomicdex.io/
https://safe.trade/
https://nonkyc.io/

Blog:
https://marmara.io/blog/

Whitepaper:
https://marmara.io/docs/IMSS2019_WhitePaper_English.pdf

Block Explorers:
https://explorer.marmara.io/
http://explorer2.marmara.io/
http://explorer3.marmara.io/

Coin Supply:
https://marmara.io/tr/marmara-coin-supply

Staking Info:
http://stake.marmara.io/ (Staking calculator)
https://marmara.io/blog/marmara-chain-1/marmara-staking-calculation-22
https://marmara.io/blog/marmara-chain-1/discover-the-superior-staking-rewards-with-marmara-mcl-coin-a-comprehensive-comparison-23

DEX Stats:
https://mcl.explorer.dexstats.info/

MCL Exchange Rates:
https://coinpaprika.com/tr/converter/mcl-marmara-credit-loops/try-turkish-lira/1/
https://www.coingecko.com/en/coins/marmara-credit-loops

Bootstrap backup is taken daily in https://explorer2.marmara.io/bootstrap
Bootstrap alternative link : https://eu.bootstrap.dexstats.info/MCL-bootstrap.tar.gz

Other Links:
https://marmara.io/discord
https://t.me/MarmaraChain
https://marmarachain-mcl.medium.com/
https://github.com/marmarachain
https://github.com/marmarachain/marmara/releases
https://zincir.market
https://mclmarket.com/
http://www.drcetiner.org/
https://komodoplatform.com/
https://discord.com/invite/4a3J7gAmC5
https://github.com/KomodoPlatform
https://github.com/marmarachain/marmara/wiki
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Important Notice to Users

Marmara Chain
This software is based on Komodo which is based on zcash and is considered experimental and is continously undergoing heavy development. Marmara Credit Loops is experimental and a work-in-progress. Use at your own risk.

At no point of time do the MCL and Komodo Platform developers take any responsibility for any damage out of the usage of this software.

Marmara Connector
Marmara Connector is experimental and a work-in-progress. Use at your own risk.

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Sources:
https://github.com/marmarachain/marmara/wiki/Important-Notice-to-Users
https://github.com/marmarachain/marmara-connector/wiki/Important-Notice-to-Users

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Sources:
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